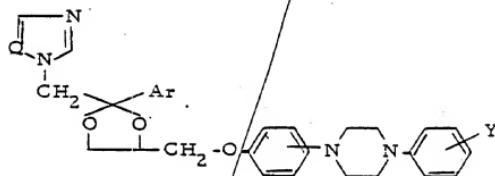


1. A chemical compound selected from the group consisting
2. of an azole derivative having the formula:

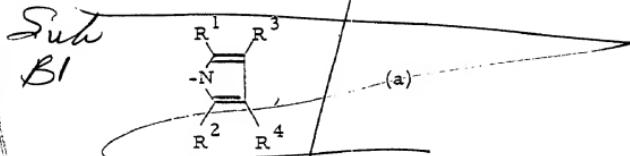


3 and the pharmaceutically acceptable acid addition salts and stereo-
4 chemically isomeric forms thereof, wherein:
5 Q is a member selected from the group consisting of CH and N;

6 Ar is a member selected from the group consisting of phenyl,
7 thiienyl, halothienyl and substituted phenyl, said substituted phenyl
8 having from 1 to 3 substituents, each independently selected from the
9 group consisting of halo, lower alkyl, lower alkyloxy and trifluoro-
10 methyl; and

11 the radical Y is a member selected from the group consisting of

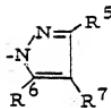
12 a 1H-pyrrol-1-yl radical of the formula



13 where R¹, R², R³ and R⁴ are each independently selected
14 from the group consisting of hydrogen, lower alkyl, aryl
15 and aryl lower alkyl;

69

a 1H-pyrazol-1-yl radical of the formula



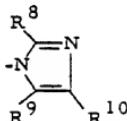
{b)

17

wherein R⁵, R⁶ and R⁷ are each independently selected from the group consisting of hydrogen, lower alkyl, aryl and aryl lower alkyl;

20

a 1H-imidazol-1-yl radical of the formula



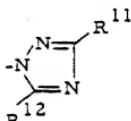
{c)

21

wherein R⁸ is selected from the group consisting of hydrogen, lower alkyl, mercapto, lower alkylthio and aryl-lower alkylthio, and R⁹ and R¹⁰ are each independently selected from the group consisting of hydrogen, lower alkyl, aryl and aryl lower alkyl;

26

a 1H-1, 2, 4-triazol-1-yl radical of the formula

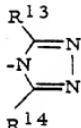


{d)

27

wherein either of R¹¹ and R¹² is selected from the group consisting of hydrogen, hydroxy, mercapto, lower alkylthio and aryl-lower alkylthio, the remaining being selected from the group consisting of hydrogen, lower alkyl and aryl-lower alkyl;

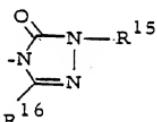
a 4H-1, 2, 4-triazol-4-yl radical of the formula



(e)

32 wherein R^{13} is selected from the group consisting of
 33 hydrogen, mercapto, hydroxy, lower alkylthio and aryl
 34 lower alkylthio, and R^{14} is selected from the group consist-
 35 ing of hydrogen, lower alkyl, aryl and aryl lower alkyl;

36 a 2, 3-dihydro-4H-1, 2, 4-triazol-4-yl radical of the formula

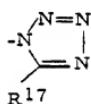


(f)

✓

37 wherein R^{15} is selected from the group consisting of lower
 38 alkyl and aryl lower alkyl and R^{16} is selected from the
 39 group consisting of hydrogen, lower alkyl, and aryl lower
 40 alkyl;

41 a 1H-1, 2, 3, 4-tetrazol-1-yl radical of the formula



(g)

42 wherein R^{17} is selected from the group consisting of
 43 hydrogen, mercapto, lower alkyl, aryl and aryl lower
 44 alkyl;

45 wherein said aryl as used in the foregoing definition is selected
 46 from the group consisting of phenyl and substituted phenyl,

47 said substituted phenyl having from 1 to 3 substituents each indepen-
48 dently selected from the group consisting of halo, lower alkyl, lower
49 alkoxy and trifluoromethyl.

71

2. A chemical compound selected from the group consisting of cis-1-[4-2-(2,4-dichlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-ylmethoxyphenyl]-4-[4-(1H-imidazol-1-yl)phenyl]-piperazine and the pharmaceutically acceptable acid addition salts and stereochemically isomeric forms thereof.

3. A chemical compound selected from the group consisting of *cis*-1-[4- $\sqrt{2}$ -(2, 4-dichlorophenyl)-2-(1H-imidazol-1-ylmethyl)-1, 3-dioxolan-4-ylmethoxyphenyl]-4- $\sqrt{4}$ -(1H-1, 2, 4-triazol-1-yl)-phenyl]piperazine and the pharmaceutically acceptable acid addition salts and stereochemically isomeric forms thereof.

24. A chemical compound selected from the group consisting of cis-4-[4-4-{4-2-(2,4-dichlorophenyl)-2-(1H-imidazol-1-yl-methyl)-1,3-dioxolan-4-ylmethoxy]phenyl]-1-piperazinylphenyl]-2,4-dihydro-2,5-dimethyl-3H-1,2,4-triazol-3-one and the pharmaceutically acceptable acid addition salts and stereochemically isomeric forms thereof.

3. A chemical compound selected from the group consisting of cis-4-[4-[4-[4-(2,4-dichlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-ylmethoxy]phenyl]-1-piperazinyl]phenyl]6,2,4-dihydro-2,5-dimethyl-3H-1,2,4-triazol-3-one monohydrate and the pharmaceutically acceptable acid addition salts and stereo-chemically isomeric forms thereof.

6. A chemical compound selected from the group consisting of *cis*-1-[4- $\sqrt{2}$ -(2,4-dichlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-ylmethoxy phenyl]-4- $\sqrt{4}$ -(1H-imidazol-1-yl)phenyl]7-

4 piperazine and the pharmaceutically acceptable acid addition salts
 5 and stereochemically isomeric forms thereof.

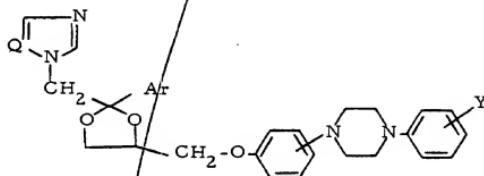
1 NC
 2 HP
 3 7. A chemical compound selected from the group consisting
 4 of cis-1- $\{4-\overline{2}-(2,4\text{-dichlorophenyl})-2-(1H-1,2,4\text{-triazol-1-yl}-$
 5 methyl)-1,3-dioxolan-4-ylmethoxyphenyl}-4- $\{4-\overline{3}-(methylthio)-$
 6 1H-1,2,4-triazol-1-ylphenyl} piperazine and the pharmaceutically
 7 acceptable acid addition salts and stereochemically isomeric
 8 forms thereof.

1 53, 55₂, 55₃, 253, 253₂
 2 4 8. A chemical compound selected from the group consisting
 3 of cis-4- $\{4-\overline{4}-\{4-\overline{2}-(2,4\text{-dichlorophenyl})-2-(1H-1,2,4\text{-triazol-1-yl}-$
 4 methyl)-1,3-dioxolan-4-ylmethoxyphenyl}-1-piperazinyl
 5 phenyl}-2-ethyl-2,4-dihydro-5-methyl-3H-1,2,4-triazol-3-one
 6 and the pharmaceutically acceptable acid addition salts and stereo-
 7 chemically isomeric forms thereof.

1 58, 2, 363, 364
 2 8 9. A chemical compound selected from the group consisting
 3 of cis-4- $\{4-\overline{4}-\{4-\overline{2}-(2,4\text{-dichlorophenyl})-2-(1H-1,2,4\text{-triazol-1-yl}-$
 4 methyl)-1,3-dioxolan-4-ylmethoxyphenyl}-1-piperazinyl
 5 phenyl}-2,4-dihydro-5-methyl-2-propyl-3H-1,2,4-triazol-3-one
 6 one monohydrate and the pharmaceutically acceptable acid addition
 7 salts and stereochemically isomeric forms thereof.

1 60, 2, 32, 33, 34, 7, 13
 2 10. A chemical compound selected from the group consist-
 3 ting of cis-4- $\{4-\overline{4}-\{4-\overline{2}-(2,4\text{-dichlorophenyl})-2-(1H-1,2,4\text{-triazol-1-yl}-$
 4 methyl)-1,3-dioxolan-4-ylmethoxyphenyl}-1-piperazinyl
 5 phenyl}-2-ethyl-2,4-dihydro-3H-1,2,4-triazol-3-one and
 6 the pharmaceutically acceptable acid addition salts and stereo-
 7 chemically isomeric forms thereof.

1 11. A composition for combatting the growth of a
 2 microorganism selected from the group consisting of fungus
 3 and bacterium comprising an inert carrier material and as an
 4 active ingredient an effective antifungal or antibacterial amount
 5 of a compound selected from the group consisting of an azole
 6 derivative having the formula



7 and the pharmaceutically acceptable acid addition salts and
 8 stereochemically isomeric forms thereof, wherein:

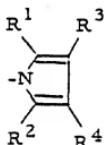
9 Q is a member selected from the group consisting of CH and N;

10 Ar is a member selected from the group consisting of phenyl,
 11 thiienyl, halothienyl and substituted phenyl, said substituted
 12 phenyl having from 1 to 3 substituents each independently
 13 selected from the group consisting of halo, lower alkyl, lower
 14 alkyloxy and trifluoromethyl; and

15 the radical Y is a member selected from the group consisting of

15

a 1H-pyrrol-1-yl radical of the formula



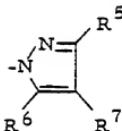
(a)

16

wherein R¹, R², R³ and R⁴ are each independently selected from the group consisting of hydrogen, lower alkyl, aryl and aryl lower alkyl;

19

a 1H-pyrazol-1-yl radical of the formula



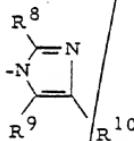
(b)

20

wherein R⁵, R⁶ and R⁷ are each independently selected from the group consisting of hydrogen, lower alkyl, aryl and aryl lower alkyl;

23

a 1H-imidazol-1-yl radical of the formula



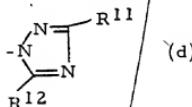
(c)

24

wherein R⁸ is selected from the group consisting of hydrogen, mercapto, lower alkylthio and aryl lower alkylthio, and R⁹ and R¹⁰ are each independently selected from the group consisting of hydrogen, lower alkyl, aryl and aryl lower alkyl;

29

a 1H-1, 2, 4-triazol-1-yl radical of the formula



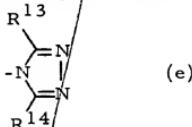
(d)

30

wherein either of R¹¹ and R¹² is selected from the group consisting of hydrogen, hydroxy, mercapto, lower alkylthio and aryl-lower alkylthio, the remaining being selected from the group consisting of hydrogen, lower alkyl and aryl-lower alkyl;

35

a 4H-1, 2, 4-triazol-4-yl radical of the formula



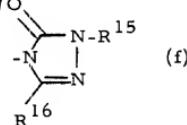
(e)

36

wherein R¹³ is selected from the group consisting of hydrogen, mercapto, hydroxy, lower alkylthio and aryl lower alkylthio, and R¹⁴ is selected from the group consisting of hydrogen, lower alkyl, aryl and aryllower alkyl;

40

a 2, 3-dihydro-4H-1, 2, 4-triazol-4-yl radical of the formula



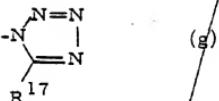
(f)

41

wherein R¹⁵ is selected from the group consisting of lower alkyl and aryl lower alkyl and R¹⁶ is selected from the group consisting of hydrogen, lower alkyl, and aryl lower alkyl;

45

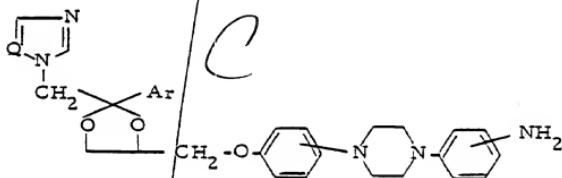
a 1H-1, 2, 3, 4-tetrazol-1-yl radical of the formula



46 wherein R¹⁷ is selected from the group consisting of
 47 hydrogen, mercapto, lower alkyl, aryl and aryl lower
 48 alkyl;

49 wherein said aryl as used in the foregoing definition is selected
 50 from the group consisting of phenyl and substituted phenyl, said
 51 substituted phenyl having from 1 to 3 substituents each independently
 52 selected from the group consisting of halo, lower alkyl, lower
 53 alkyloxy and trifluoromethyl.

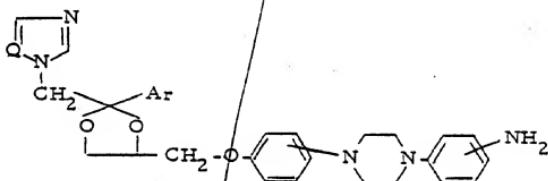
1 12. A chemical compound having the formula



2 and the pharmaceutically acceptable acid addition salts and
 3 stereochemically isomeric forms thereof, wherein:
 4 Q is a member selected from the group consisting of CH and N;

5 Ar is a member selected from the group consisting of phenyl,
 6 thiienyl, halothienyl and substituted phenyl, said substituted
 7 phenyl having from 1 to 3 substituents each independently
 8 selected from the group consisting of halo, lower alkyl,
 9 lower alkyloxy and trifluoromethyl.

1 13. A composition for combating the growth of a micro-
2 organism selected from the group consisting of fungus and bacterium
3 comprising an inert carrier material and as an active ingredient an
4 effective antifungal or antibacterial amount of a compound selected from
5 the group consisting of an azole derivative having the formula



6 and the pharmaceutically acceptable acid addition salts and stereo-
7 chemically isomeric forms thereof, wherein:

8 Q is a member selected from the group consisting of CH and N:

9 Ar is a member selected from the group consisting of phenyl,
10 thiaryl, halothiaryl and substituted phenyl, said substituted
11 phenyl having from 1 to 3 substituents each independently
12 selected from the group consisting of halo, lower alkyl,
13 lower alkyloxy and trifluoromethyl.

1 14. A chemical compound selected from the group consisting
2 of cis-1-{4-2-(2,4-dichlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)-
3 1,3-dioxolan-4-ylmethoxyphenyl}-4-4-(1H-tetrazol-1-yl)phenyl-
4 piperazine and the pharmaceutically acceptable acid addition salts
5 and stereochemically isomeric forms thereof.

add
8' >